

FIG. 1

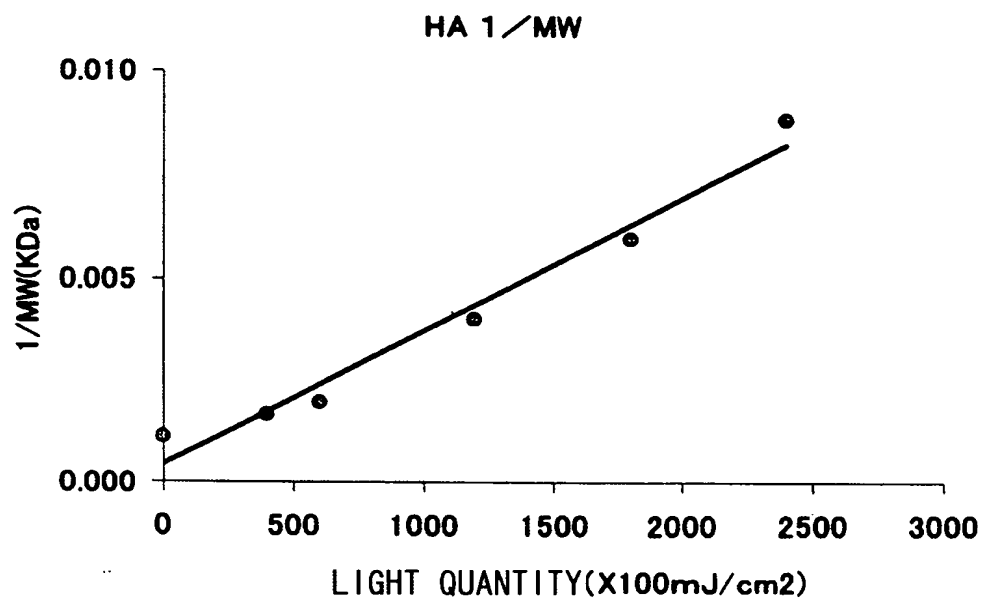


FIG. 2

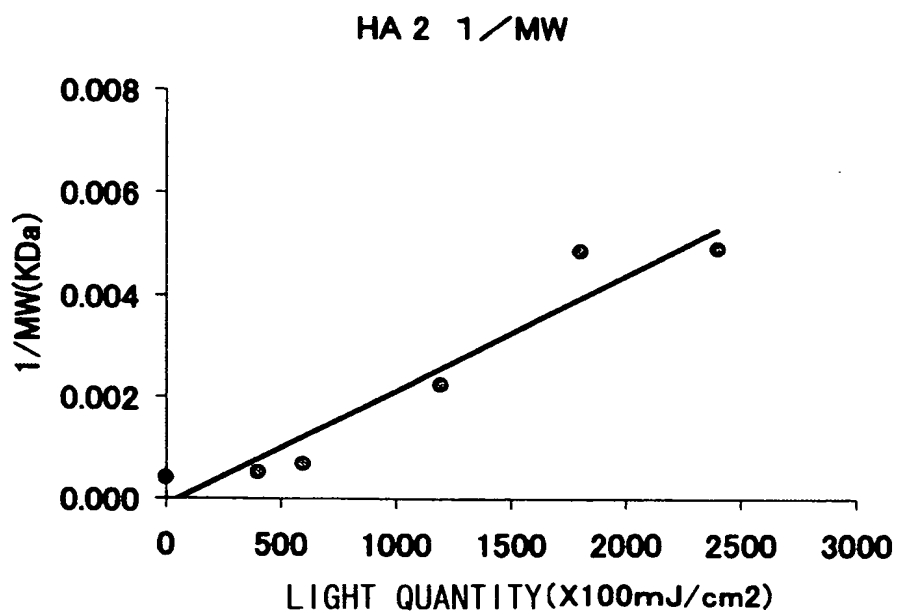


FIG. 3

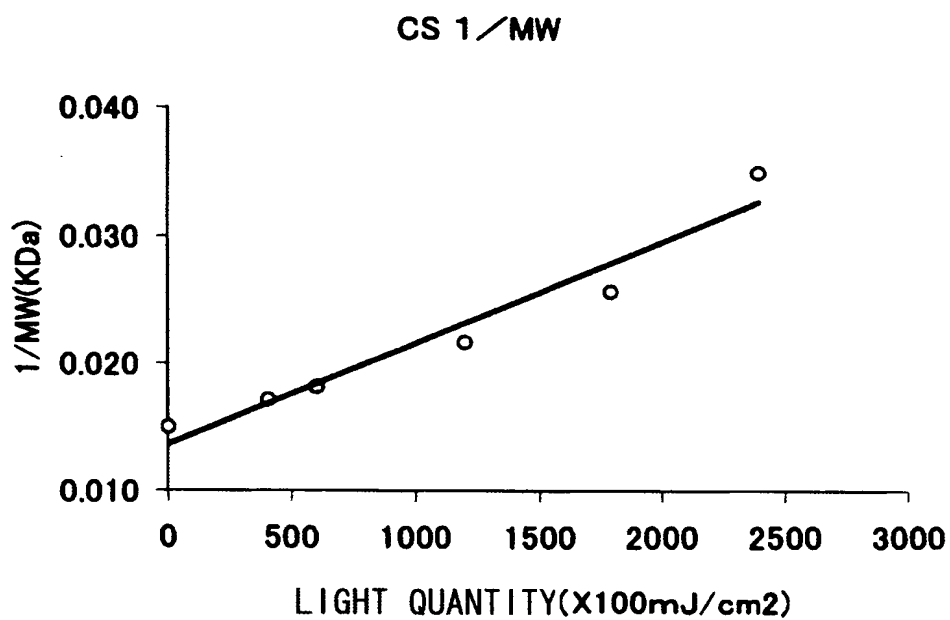


FIG. 4

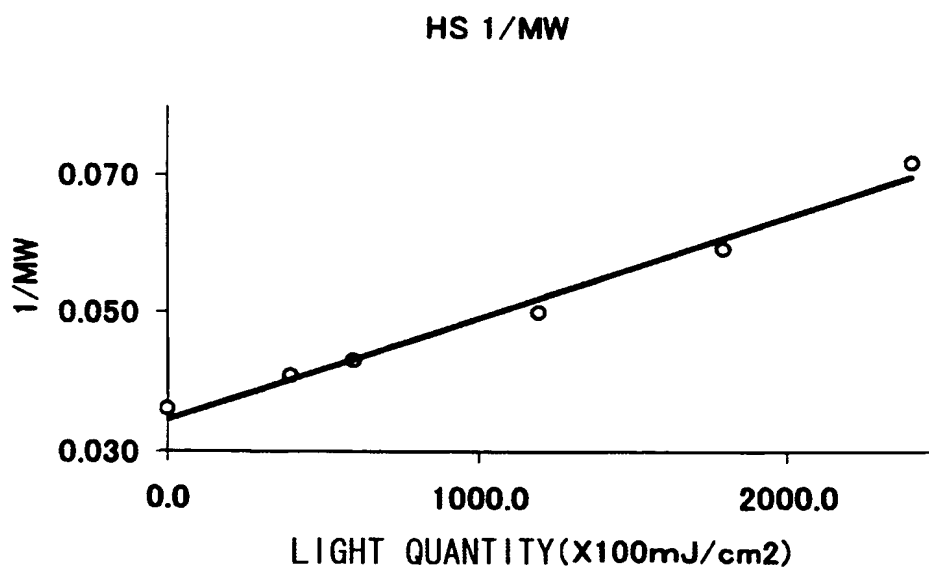


FIG. 5

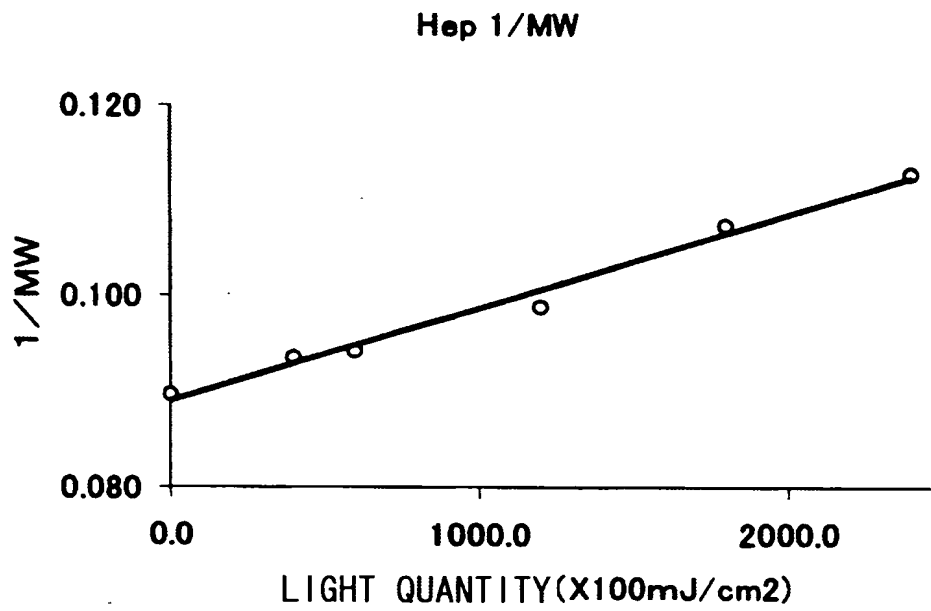


FIG. 6

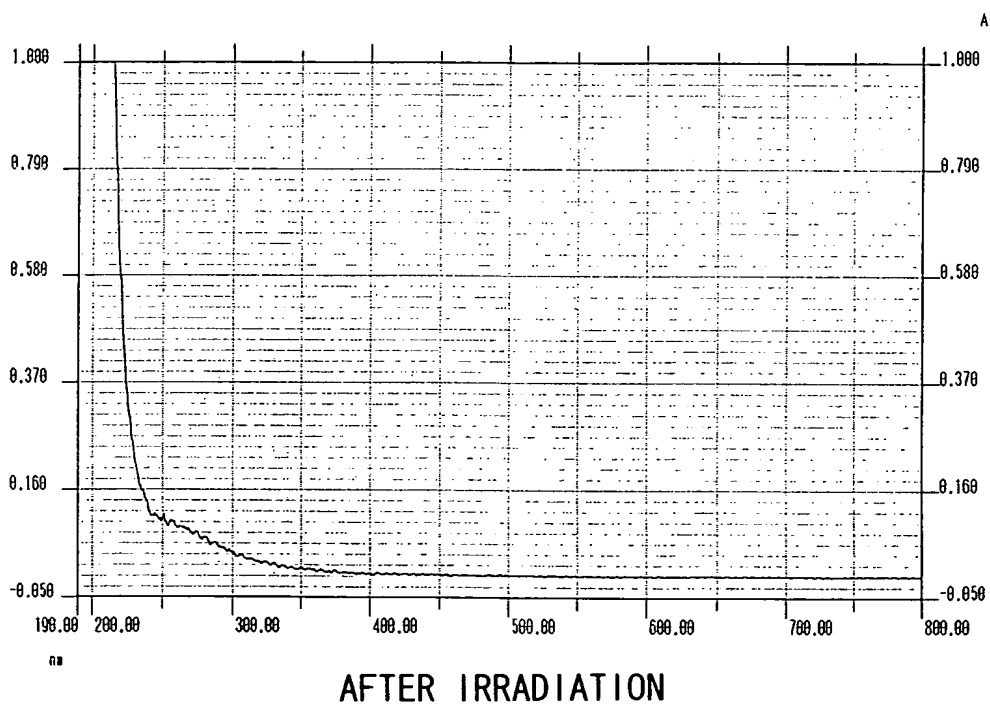
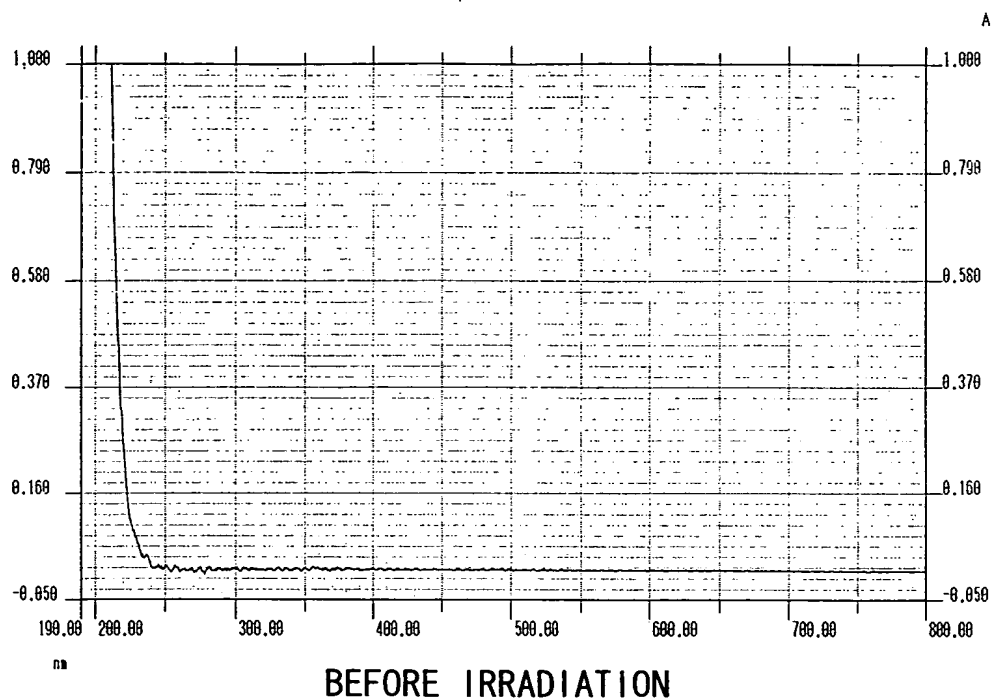


FIG. 7

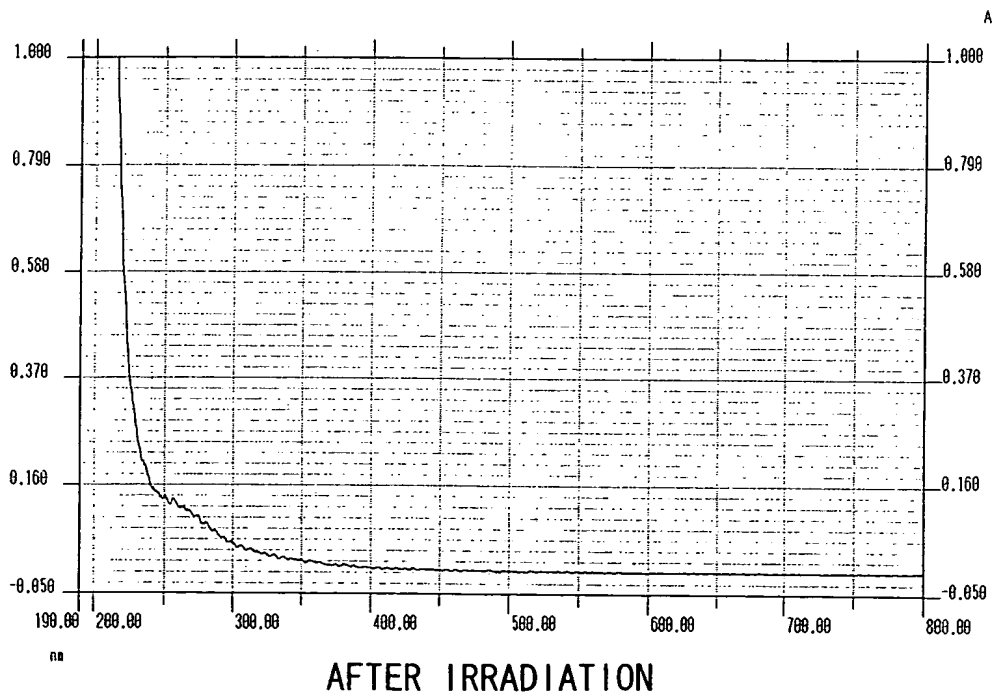
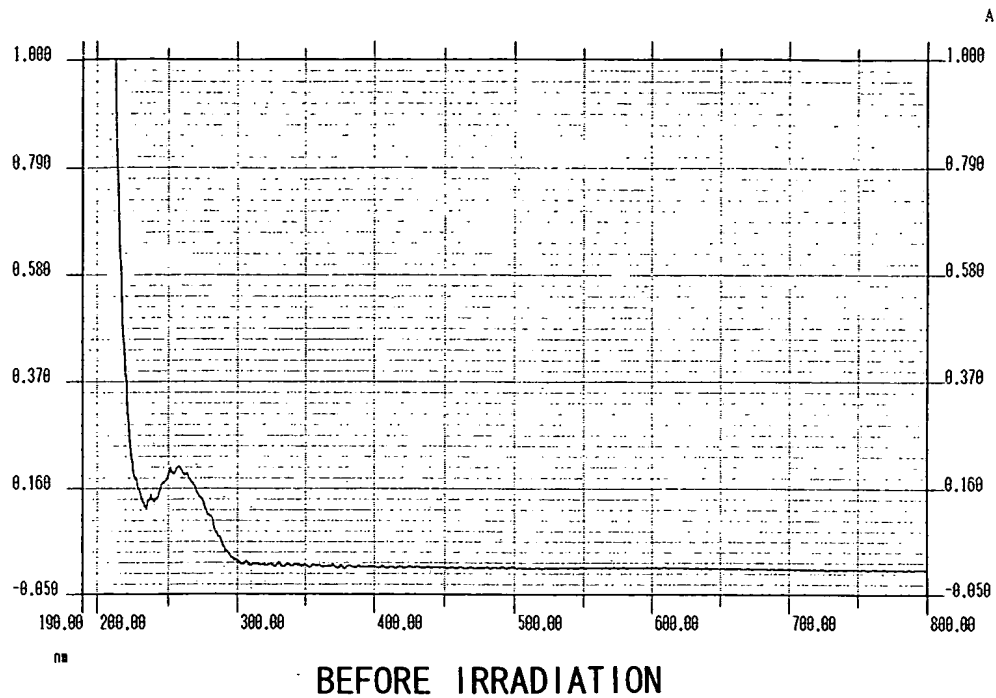


FIG. 8

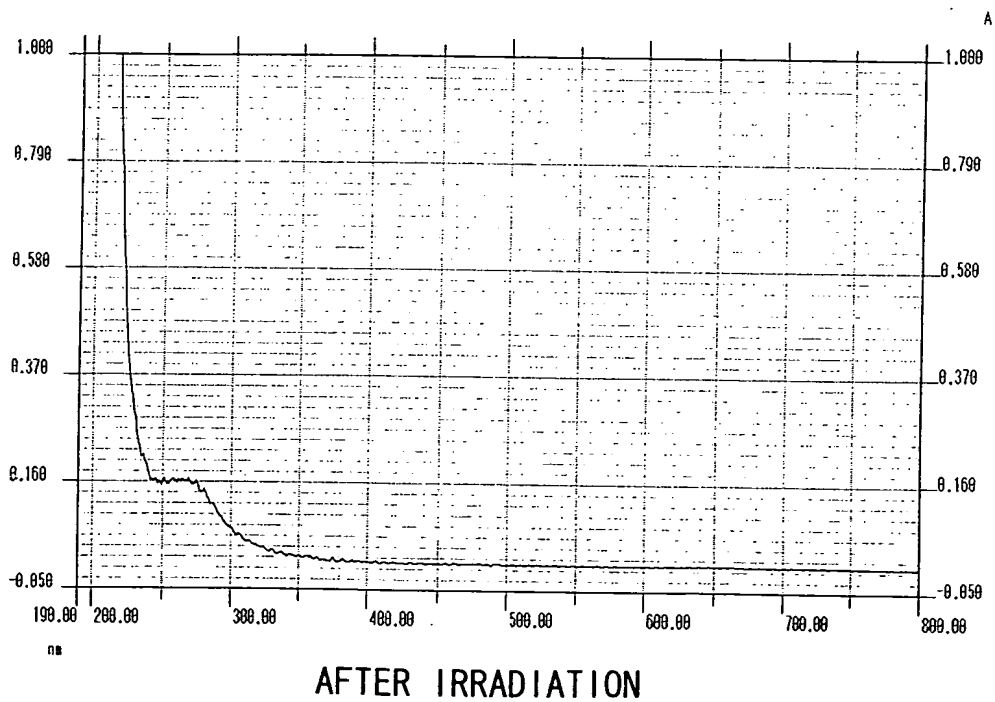
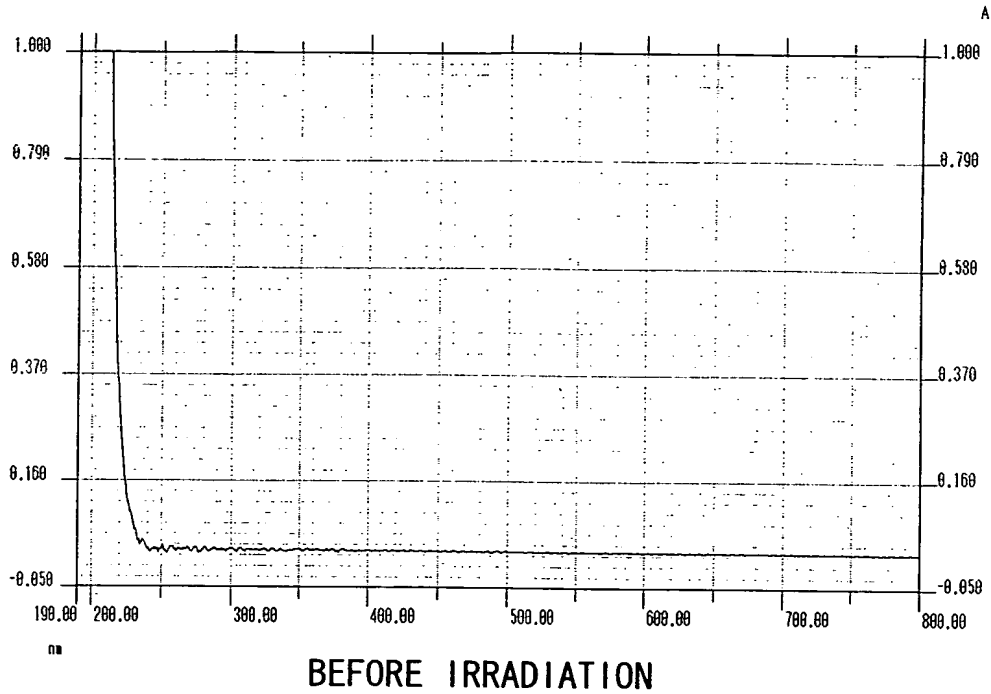


FIG. 9

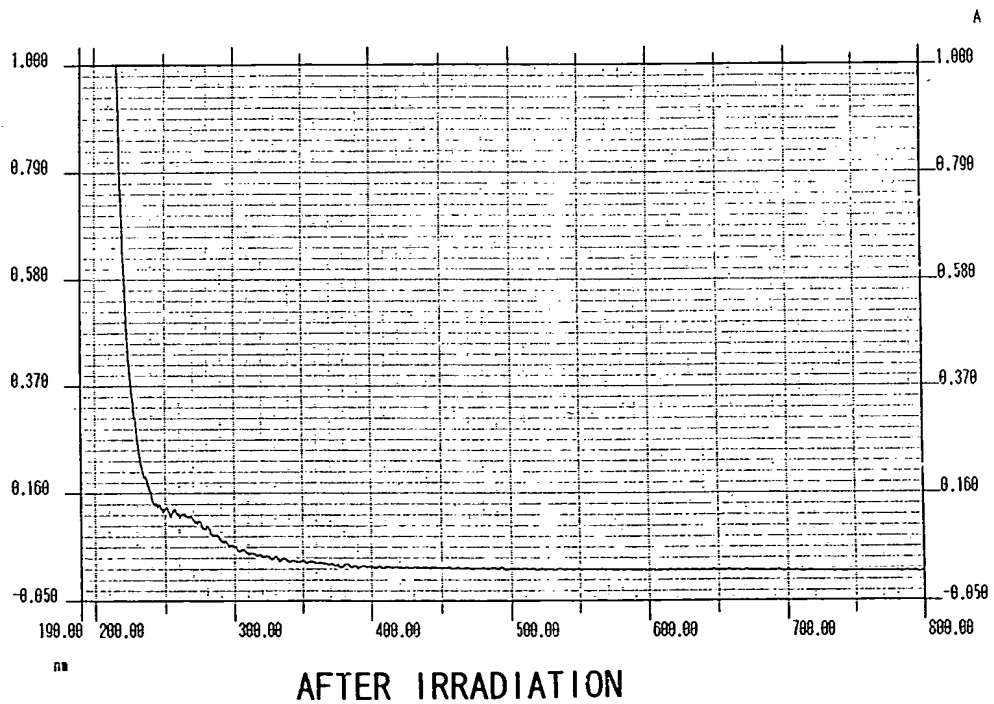
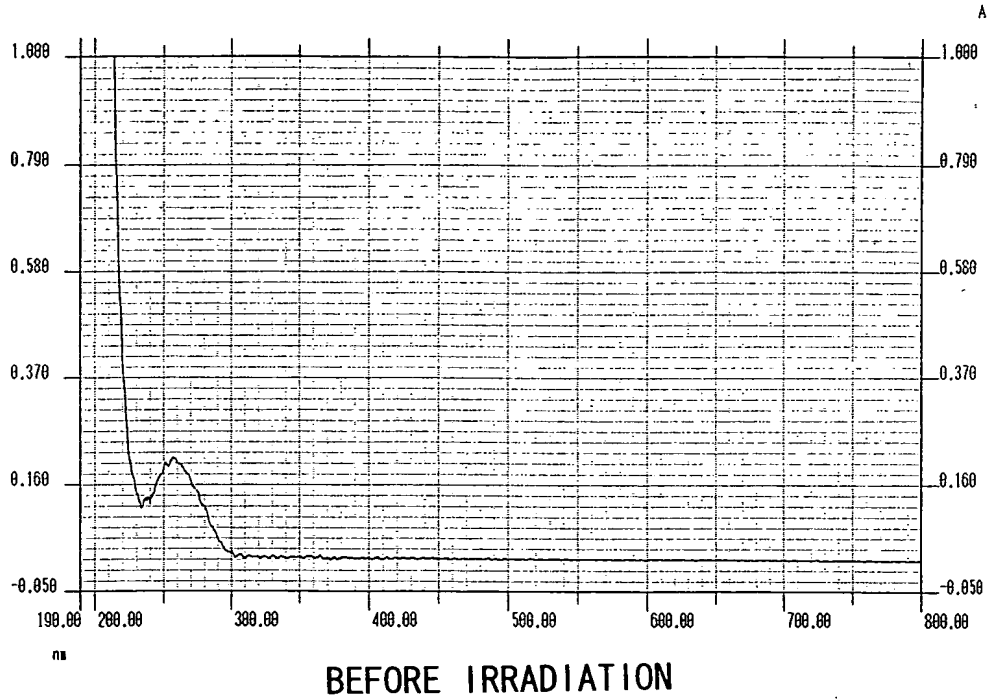
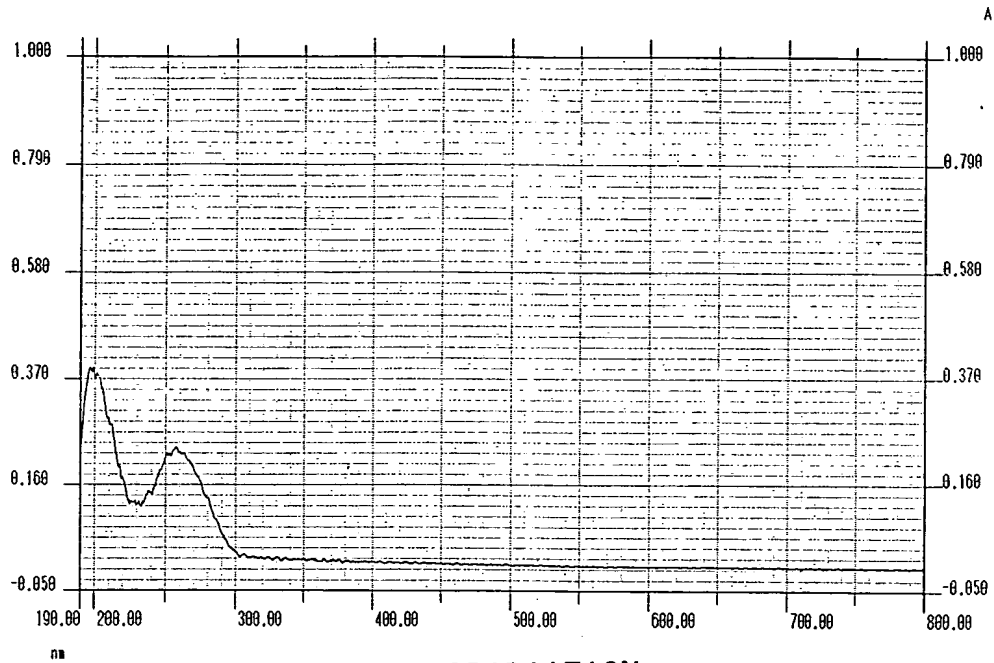
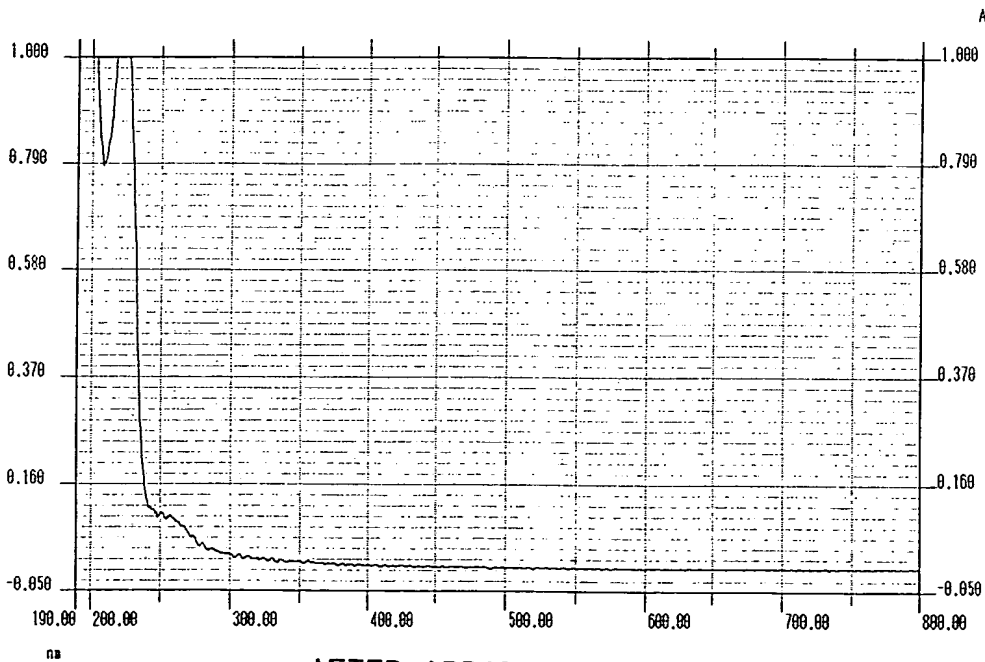


FIG. 10



BEFORE IRRADIATION



AFTER IRRADIATION

FIG. 11

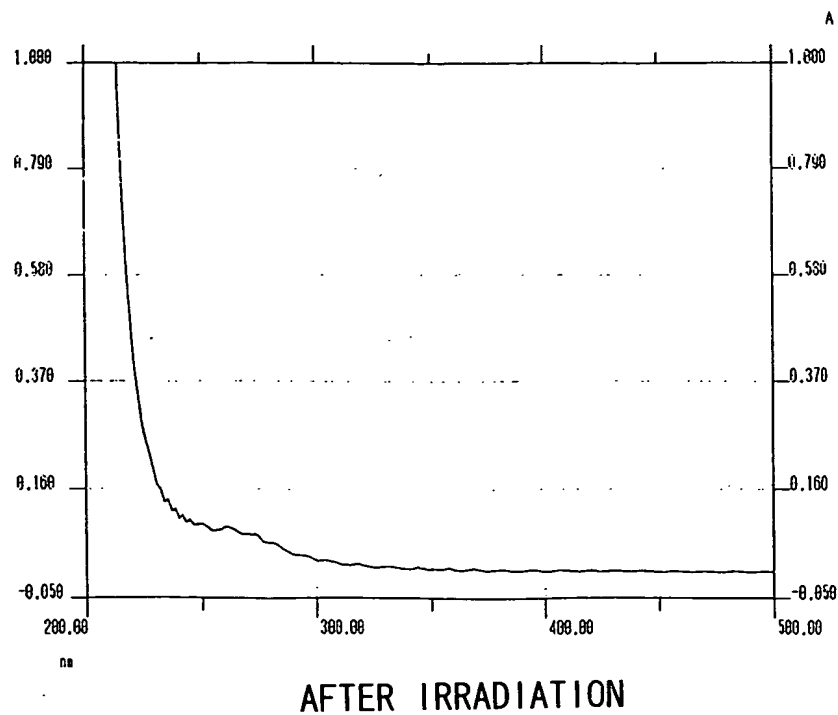
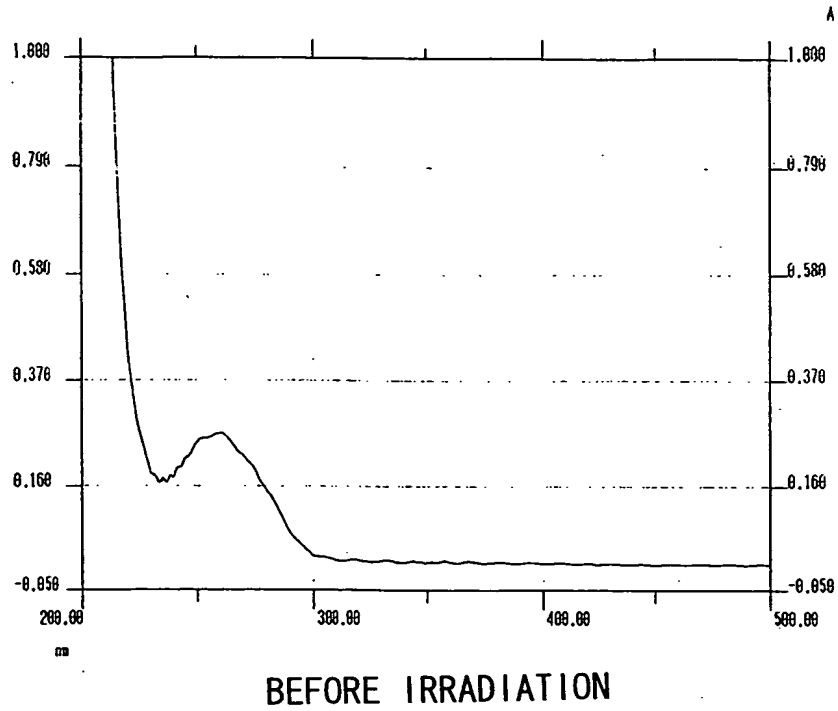
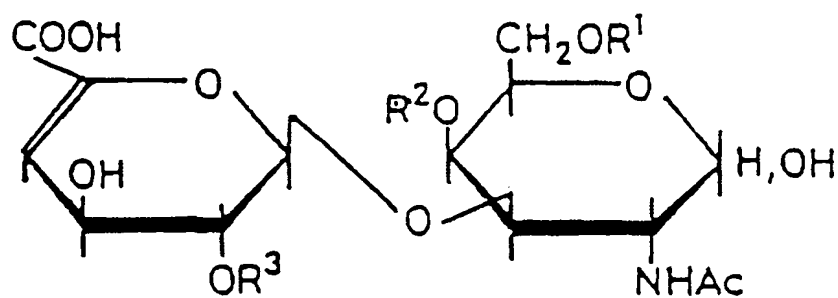
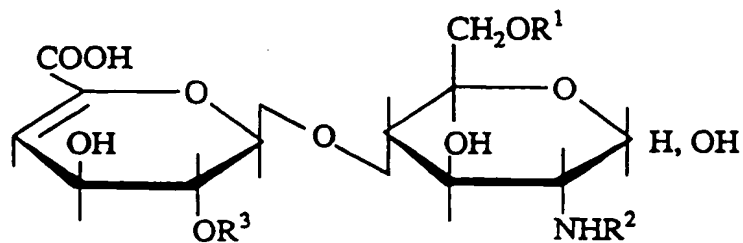


FIG. 12



| | R ¹ | R ² | R ³ |
|----------------------|------------------------------|------------------------------|------------------------------|
| ΔDi-OS | H | H | H |
| ΔDi-6S | SO ₃ ⁻ | H | H |
| ΔDi-4S | H | SO ₃ ⁻ | H |
| ΔDi-diS _D | SO ₃ ⁻ | H | SO ₃ ⁻ |
| ΔDi-diS _E | SO ₃ ⁻ | SO ₃ ⁻ | H |
| ΔDi-diS _B | H | SO ₃ ⁻ | SO ₃ ⁻ |
| ΔDi-triS | SO ₃ ⁻ | SO ₃ ⁻ | SO ₃ ⁻ |

FIG. 13



| | R ¹ | R ² | R ³ |
|-------------------|------------------------------|------------------------------|------------------------------|
| ΔDiHS-0S | H | Ac | H |
| ΔDiHS-6S | SO ₃ ⁻ | Ac | H |
| ΔDiHS-NS | H | SO ₃ ⁻ | H |
| ΔDiHS-US | H | Ac | SO ₃ ⁻ |
| ΔDiHS-di(6,N)S | SO ₃ ⁻ | SO ₃ ⁻ | H |
| ΔDiHS-di(U,N)S | H | SO ₃ ⁻ | SO ₃ ⁻ |
| ΔDiHS-di(U,6)S | SO ₃ ⁻ | Ac | SO ₃ ⁻ |
| ΔDiHS-tri(U,6,N)S | SO ₃ ⁻ | SO ₃ ⁻ | SO ₃ ⁻ |